

## PATENT ABSTRACTS OF JAPAN

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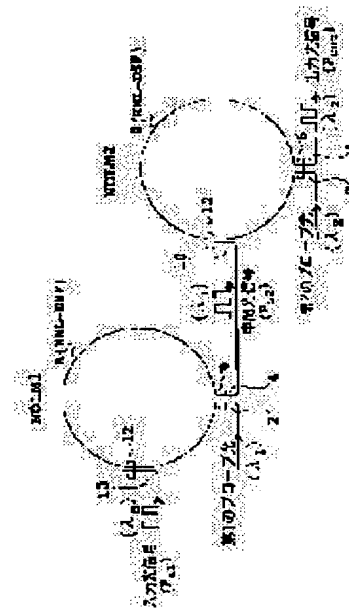
## (54) DEVICE AND SYSTEM FOR WAVE SHAPING

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a device and system for wave shaping and to provide a device having large freedom for wavelength conversion.

**SOLUTION:** The device includes at least two nonlinear loop mirrors (NOLM1, 2). Each of NOLM1, 2 includes a first optical coupler 6 having first and second optical paths 2, 4 which are directionally coupled, a loop optical path 8 consisting of a nonlinear optical medium which connects the first and second optical paths, and a second optical coupler 12 having a third optical path 10 which is directionally coupled to the loop optical path. The second optical path 4 of NOLM1 is optically connected to the third optical path 10 of NOLM2.

本発明による装置の概略的実体形態を示す図



## LEGAL STATUS

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